

The critical issue is: the logic in natural languages and sciences is much more complicated than the logic (or logics) in programming languages, or any other existing logics. Large language models are incomplete and inconsistent.

So, current logic studies, including relevance logic or any other substructural/paraconsistent logics, are inadequate.

There are countless types of mathematical logic and philosophical logic, but none of them could really judge the true/false in natural languages and sciences.

The following analyses could provide the foundation for a better scientific logic.

1) Most of numbers are not computable, or even not definable. How many natural laws are critical on these incomputable or undefinable numbers? This question cannot be answered by humans' sciences and verified by scientific experiments.

It is NOT a trivial issue. So, humans will never have the Theory of Everything. The logic in Prof. Gerard't Hooft's article Free Will in the Theory of Everything is wrong.

2) Actually, humans' sciences are NOT consistent and complete. Even if some pompous physicists still think the problems be trivial in physics, these problems would be amplified enormously in life sciences, and especially in intelligence sciences.

3) Thus, physical sciences, life sciences, intelligence sciences need very different reference systems. Humans should not stop at the reference system theory of general relativity.

4) These different reference systems need very different logic frameworks. There are paradigm shifts across these different reference systems related to logic frameworks. So, people should be specific about what exactly these paradigm shifts are in various situations.

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[illegible][illegible][illegible][illegible]

the selfish gene-free will self-consciousness

the selfish gene

potentially a meta-solution to any problem

BRAIN initiative

[illegible]

abuse

2023 年 12 月 11 日 00:00 Waymo 自动驾驶出租车在旧金山首次公开测试。2024 年 2 月 6 日 00:00 Waymo 自动驾驶出租车在旧金山首次公开测试。2024 年 2 月 10 日 00:00 Waymo 自动驾驶出租车在旧金山首次公开测试。Waymo 自动驾驶出租车在旧金山首次公开测试。

Google/Waymo

AGI Human Brain project BRAIN Initiative

mirror neuron mirror neuron
complete

complete

complete

"If I gave an AI ... every single test that you can possibly imagine, you make that list of tests and put it in front of the computer science industry, and I'm guessing in five years time, we'll do well on every single one,"

mirron neuron

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Gerard't Hooft

common sense

common sense

paradigm shift PPE Philoso
phy, politics and economics paradigm shift